

081,076

L Number	Hits	Search Text	DB	Time stamp
2	16776	(T ADJ (CELL OR LYMPHOCYTE)).TI,AB,CLM.	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:52
3	6546	(B ADJ (CELL OR LYMPHOCYTE)).TI,AB,CLM.	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:52
4	18264	(DETERMINANT OR EPITOP\$6).TI,AB,CLM.	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:53
5	617	((T ADJ (CELL OR LYMPHOCYTE)).TI,AB,CLM.) AND ((B ADJ (CELL OR LYMPHOCYTE)).TI,AB,CLM.) AND ((DETERMINANT OR EPITOP\$6).TI,AB,CLM.)	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:54
6	1368	((T ADJ (CELL OR LYMPHOCYTE)).TI,AB,CLM.) OR ((B ADJ (CELL OR LYMPHOCYTE)).TI,AB,CLM.)) NEAR3 ((DETERMINANT OR EPITOP\$6).TI,AB,CLM.)	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:54
7	373	((T ADJ (CELL OR LYMPHOCYTE)).TI,AB,CLM.) AND ((B ADJ (CELL OR LYMPHOCYTE)).TI,AB,CLM.) AND ((DETERMINANT OR EPITOP\$6).TI,AB,CLM.)) AND (((T ADJ (CELL OR LYMPHOCYTE)).TI,AB,CLM.) OR ((B ADJ (CELL OR LYMPHOCYTE)).TI,AB,CLM.)) NEAR3 ((DETERMINANT OR EPITOP\$6).TI,AB,CLM.))	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:54

081,076

L Number	Hits	Search Text	DB	Time stamp
1	1092	melittin	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:08
2	165386	peptide	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:08
3	124577	polypeptide	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:08
4	212179	fragment	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:08
5	2225	subfragment	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:08
7	46799	epitop\$6	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:11
8	561251	segment	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:11
9	323	melittin near3 (peptide or polypeptide or fragment or subfragment or epitop\$6 or segment)	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:12

081,076

L Number	Hits	Search Text	DB	Time stamp
1	253	(530/387.2).CCLS.	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:05
2	231	(424/131.1).CCLS.	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:05
3	381	((530/387.2).CCLS.) or ((424/131.1).CCLS.)	USPAT; US-PGPUB; EPO; DERWENT	2004/08/26 14:06

081,076

=> fil reg

FILE 'REGISTRY' ENTERED AT 09:31:28 ON 26 AUG 2004
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 24 AUG 2004 HIGHEST RN 732209-96-0
 DICTIONARY FILE UPDATES: 24 AUG 2004 HIGHEST RN 732209-96-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que l2

L1 30 SEA FILE=REGISTRY ABB=ON PLU=ON WIKRKRQQG/SQSP
 L2 1 SEA FILE=REGISTRY ABB=ON PLU=ON L1 AND 9/SQL

← open
 ← exact (closed)

=> d his

(FILE 'HOME' ENTERED AT 09:22:36 ON 26 AUG 2004)
 SET COST OFF

FILE 'REGISTRY' ENTERED AT 09:22:46 ON 26 AUG 2004

L1 30 S WIKRKRQQG/SQSP
 L2 1 S L1 AND 9/SQL
 L3 29 S L1 NOT L2

FILE 'HCAPLUS' ENTERED AT 09:27:34 ON 26 AUG 2004

L4 1 S L2
 L5 11 S L3
 L6 11 S L4,L5 AND ?MELITTIN?
 L7 2 S L4,L5 AND (COUTTS S? OR BARSTAD P? OR IVERSON ? OR JONES D?)/
 L8 2 S L4,L5 AND (LAJOLLA? OR LA JOLLA?)/PA,CS
 L9 2 S L4,L5 AND (US20030103990 OR US6060056 OR US5268454)/PN
 L10 2 S L7-L9
 L11 6 S L4,L5 AND (PY<=1990 OR PRY<=1990 OR AY<=1990)
 L12 6 S L4,L5 AND (PY<=1991 OR PRY<=1991 OR AY<=1991)
 L13 4 S L11,L12 NOT L10
 L14 1 S L4 AND L5-L13

FILE 'USPATFULL, USPAT2' ENTERED AT 09:31:13 ON 26 AUG 2004

L15 1 S L2

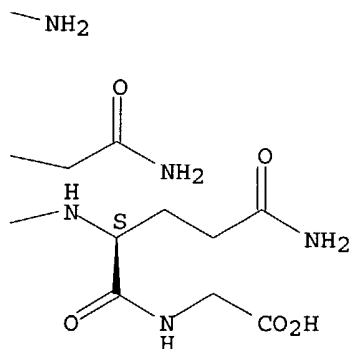
FILE 'REGISTRY' ENTERED AT 09:31:28 ON 26 AUG 2004

=> d sqide can l2

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 181469-64-7 REGISTRY
 CN Glycine, N- [N2- [N2- [N2- [N2- [N2- [N2- (N-L-tryptophyl-L-isoleucyl)-L-lysyl]-L-
 arginyl]-L-lysyl]-L-arginyl]-L-glutaminy]-L-glutaminy]- (9CI) (CA INDEX

Absolute stereochemistry.

PAGE 1-B



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 125:219609

=> fil uspatall

FILE 'USPATFULL' ENTERED AT 09:31:39 ON 26 AUG 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 09:31:39 ON 26 AUG 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d bib abs hitstr l15

L15 ANSWER 1 OF 1 USPATFULL on STN

AN 96:80258 USPATFULL

TI Chemically-defined non-polymeric valency platform molecules and conjugates thereof

IN Coutts, Stephen M., Rancho Santa Fe, CA, United States

Jones, David S., San Diego, CA, United States

Livingston, Douglas A., San Diego, CA, United States

Yu, Lin, San Diego, CA, United States

PA La Jolla Pharmaceutical Company, San Diego, CA, United States (U.S. corporation)

PI US 5552391 19960903

AI US 1993-152506 19931115 (8)

RLI Continuation-in-part of Ser. No. US 1992-914869, filed on 15 Jul 1992, now patented, Pat. No. US 5276013 which is a continuation-in-part of Ser. No. US 1990-494118, filed on 13 Mar 1990, now patented, Pat. No. US 5162515, issued on 10 Nov 1992 which is a continuation-in-part of Ser. No. US 1990-466138, filed on 16 Jan 1990, now abandoned And a continuation-in-part of Ser. No. US 1993-118055, filed on 8 Sep 1993 which is a continuation-in-part of Ser. No. US 1991-652648, filed on 8 Feb 1991, now patented, Pat. No. US 5268454

DT Utility

*related to
instant
pat
family*

FS Granted
 EXNAM Primary Examiner: Rollins, John W.
 LREP Morrison & Foerster
 CLMN Number of Claims: 12
 ECL Exemplary Claim: 1
 DRWN 16 Drawing Figure(s); 16 Drawing Page(s)
 LN.CNT 3038

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Chemically-defined, non-polymeric valency platform molecules and conjugates comprising chemically-defined valency platform molecules and biological or chemical molecules including polynucleotide duplexes of at least 20 base pairs that have significant binding activity for human lupus anti-dsDNA autoantibodies.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 181469-64-7DP, conjugates

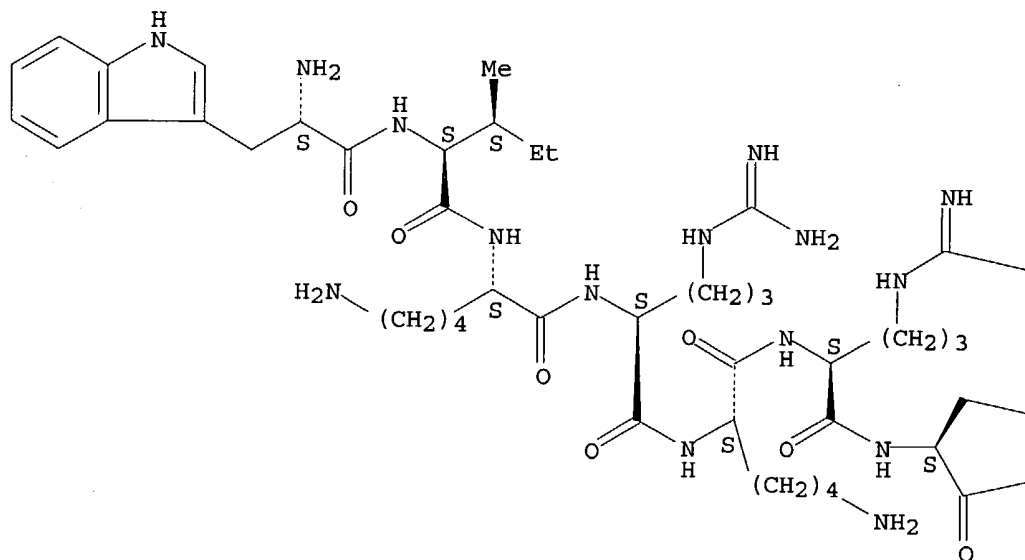
(chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or melittin as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)

RN 181469-64-7 USPATFULL

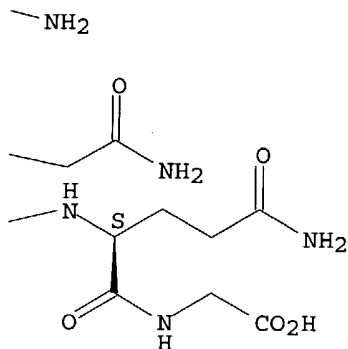
CN Glycine, N-[N2-[N2-[N2-[N2-[N2-[N2-(N-L-tryptophyl-L-isoleucyl)-L-lysyl]-L-arginyl]-L-lysyl]-L-arginyl]-L-glutaminyl]-L-glutaminyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 09:31:49 ON 26 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 26 Aug 2004 VOL 141 ISS 9

FILE LAST UPDATED: 25 Aug 2004 (20040825/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr l14

L14 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1996:577842 HCAPLUS

DN 125:219609

ED Entered STN: 28 Sep 1996

TI Chemically-defined non-polymeric valency platform molecules and conjugates thereof

IN Coutts, Stephen M.; Jones, David S.; Livingston, Douglas A.; Yu, Lin

PA La Jolla Pharmaceutical Company, USA

*related to
mustard
part family*

SO U.S., 59 pp., Cont.-in-part of U.S. 5,276,013.

CODEN: USXXAM

DT Patent

LA English

IC ICM A61A031-70

ICS C07H019-00; C07H019-04

NCL 514044000

CC 15-2 (Immunochemistry)

FAN.CNT 8

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5552391	A	19960903	US 1993-152506	19931115 <--
	US 5162515	A	19921110	US 1990-494118	19900313 <--
	JP 05505520	T2	19930819	JP 1991-503584	19910115 <--
	CA 2173878	C	20000404	CA 1991-2173878	19910115 <--
	JP 2001354569	A2	20011225	JP 2001-106534	19910115 <--
	US 5268454	A	19931207	US 1991-652648	19910208 <--
	AU 9214118	A1	19920907	AU 1992-14118	19920204 <--
	AU 646157	B2	19940210		
	JP 05508421	T2	19931125	JP 1992-505775	19920204 <--
	JP 2544873	B2	19961016		
	CA 2277724	C	20030527	CA 1992-2277724	19920204 <--
	NO 9202781	A	19920714	NO 1992-2781	19920714 <--
	FI 9203241	A	19920715	FI 1992-3241	19920715 <--
	US 5276013	A	19940104	US 1992-914869	19920715 <--
	US 6060056	A	20000509	US 1993-118055	19930908 <--
	JP 07126186	A2	19950516	JP 1993-298747	19931129
	JP 2002087991	A2	20020327	JP 2001-197540	19931129
	EP 642798	A2	19950315	EP 1993-309720	19931203
	EP 642798	A3	19980916		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	CA 2171434	AA	19950316	CA 1994-2171434	19940908
	WO 9507073	A1	19950316	WO 1994-US10031	19940908
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ				
	RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9477209	A1	19950327	AU 1994-77209	19940908
	AU 677710	B2	19970501		
	EP 722318	A1	19960724	EP 1994-928016	19940908
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	CN 1134109	A	19961023	CN 1994-193993	19940908
	JP 09500389	T2	19970114	JP 1995-508766	19940908
	JP 2002085062	A2	20020326	JP 2001-214569	19940908
	US 5606047	A	19970225	US 1995-453254	19950530 <--
	US 5633395	A	19970527	US 1995-453452	19950530 <--
	NO 9600952	A	19960502	NO 1996-952	19960307
	FI 9601100	A	19960508	FI 1996-1100	19960308
	US 2002082400	A1	20020627	US 2000-753350	20001229
	US 2002107389	A1	20020808	US 2000-752533	20001229
	US 2003162953	A1	20030828	US 2002-144391	20020510
PRAI	US 1990-466138	B2	19900116	<--	
	US 1990-494118	A2	19900313	<--	
	US 1991-652648	A2	19910208	<--	
	US 1992-914869	A2	19920715		
	US 1993-118055	A2	19930908		
	CA 1991-2034197	A3	19910115	<--	
	JP 1991-503584	A3	19910115	<--	
	WO 1991-US293	W	19910115	<--	
	CA 1992-2076648	A3	19920204		
	WO 1992-US975	A	19920204		

US 1993-142598	A	19931022
US 1993-152506	A	19931115
EP 1993-309288	A	19931122
JP 1993-298747	A3	19931129
JP 1995-508766	A3	19940908
WO 1994-US10031	W	19940908
US 1995-453254	A3	19950530
US 1996-769041	A1	19961218

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 5552391	ICM	A61A031-70
	ICS	C07H019-00; C07H019-04
	NCL	514044000
US 5552391	ECLA	A61K039/385; A61K047/48H4; A61K047/48R2T; C07H021/00C4
		<--
US 6060056	ECLA	A61K039/385; A61K047/48H4
		<--
US 5606047	ECLA	A61K039/385; C07H021/00C4; A61K047/48H4; A61K047/48R2T
		<--
US 5633395	ECLA	A61K039/385; C07H021/00C4
		<--
US 2002082400	ECLA	A61K039/385; A61K047/48H4
US 2002107389	ECLA	A61K039/385; A61K047/48H4
US 2003162953	ECLA	A61K039/385; A61K047/48H4

AB Chemical-defined, non-polymeric valency platform mols. and conjugates comprising chemical-defined valency platform mols. and biol. or chemical mols. including polynucleotide duplexes of at least 20 base pairs that have significant binding activity for human lupus anti-dsDNA autoantibodies. The polynucleotide duplex-containing conjugates are useful as toleragen for treating human autoimmune disease or systemic lupus erythematosus. In example, chemical-defined valency platform mols. were synthesized, conjugated with polynucleotide (PN) and hemagglutinin or sheep red blood cell, and used as toleragen to reduce PN-specific antibody-producing cells. Similarly, conjugates of the platform mols. and **melittin** peptides were prepared for inducing tolerance mice to **melittin**.

ST toleragen nonpolymeric valency platform mol conjugate; polynucleotide hemagglutinin conjugate toleragen lupus erythematosus; **melittin** conjugate bee venom toleragen

IT Immune tolerance
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (-inducing agent; chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)

IT Antibodies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (-producing cells; chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)

IT Venoms
 (bee; chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)

IT Autoimmune disease
 Lupus erythematosus
 Protein sequences
 (chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)

IT Deoxyribonucleic acids
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (double stranded; chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)

- IT Erythrocyte
(sheep; chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)
- IT Antibodies
RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(auto-, to double stranded DNA; chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)
- IT Agglutinins and Lectins
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(hemagglutinins, keyhole limpet; chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)
- IT Nucleotides, biological studies
RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(poly-, conjugates, chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)
- IT 20449-79-0, **Melittin**
RL: ADV (Adverse effect, including toxicity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)
- IT 181469-52-3P
RL: MOA (Modifier or additive use); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)
- IT 76-05-1, reactions 79-08-3, Bromoacetic acid 98-88-4, Benzoyl chloride 100-02-7, 4-Nitrophenol, reactions 107-13-1, 2-Propenenitrile, reactions 108-18-9, Diisopropylamine 109-02-4, N-Methylmorpholine 115-77-5, reactions 142-73-4, Iminodiacetic acid 150-13-0, 4-Aminobenzoic acid 288-32-4, Imidazole, reactions 288-94-8, 1H-Tetrazole 429-41-4, Tetrabutylammonium fluoride 501-53-1, Benzylchloroformate 530-62-1 535-87-5, 3,5-Diaminobenzoic acid 538-75-0, Dicyclohexylcarbodiimide 929-59-9 1947-00-8 2009-83-8, 6-Chlorohexanol 6066-82-6, N-Hydroxysuccinimide 7087-68-5, Diisopropylethylamine 17134-17-7, Triethyleneglycol-bis-chloroformate 18162-48-6 24424-99-5 24991-53-5 40615-36-9, 4,4'-Dimethoxytriphenylmethyl chloride 54907-61-8, Iodoacetic anhydride 55750-48-6, N-Methoxycarbonylmaleimide 93183-36-9, Diisopropylammonium tetrazolide 102691-36-1 154231-82-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)
- IT 1633-78-9P, 6-Mercaptohexan-1-ol 2465-91-0P, Tetrakis-(2-cyanoethoxymethyl)methane 5434-66-2P 19199-82-7P, 4-Nitrophenylbromoacetate 31252-85-4P, p-Nitrophenyliodoacetate 32200-04-7P 35164-96-6P 35638-19-8P 38710-44-0P, 3,5-Bis-(iodoacetamido)benzoic acid 56074-20-5P 66095-18-9P 80901-86-6P 82055-94-5P 85807-84-7P 148254-12-0P 148254-13-1P 148254-14-2P 148254-18-6P 154231-80-8P 154231-81-9P 163032-98-2P 163778-62-9P 163778-63-0P 163778-64-1P 169744-02-9P 169744-03-0P 169744-04-1P 169744-05-2P 169744-06-3P 169744-07-4P 169744-08-5P

169744-09-6P 169744-10-9P 169744-11-0P 169744-12-1P 169744-13-2P
 169744-14-3P 169744-15-4P 169744-18-7P 169744-19-8P 169744-20-1P
 169744-21-2P 169744-22-3P 169744-25-6P 169744-26-7P 169744-27-8P
 181468-40-6P 181468-45-1P 181468-78-0P 181468-82-6P 181468-94-0P
 181468-97-3P 181469-02-3P 181469-05-6P 181469-09-0P 181469-17-0P
 181469-26-1P 181469-44-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)

IT 123168-46-7DP, conjugates **169744-35-8DP**, conjugates
 169744-36-9DP, conjugates 169744-37-0DP, conjugates 181469-59-0DP,
 conjugates **181469-64-7DP**, conjugates **181469-69-2DP**,
 conjugates **181469-73-8DP**, conjugates **181469-77-2DP**,
 conjugates

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)

IT **169744-35-8DP**, conjugates **181469-64-7DP**, conjugates
181469-69-2DP, conjugates **181469-73-8DP**, conjugates
181469-77-2DP, conjugates

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

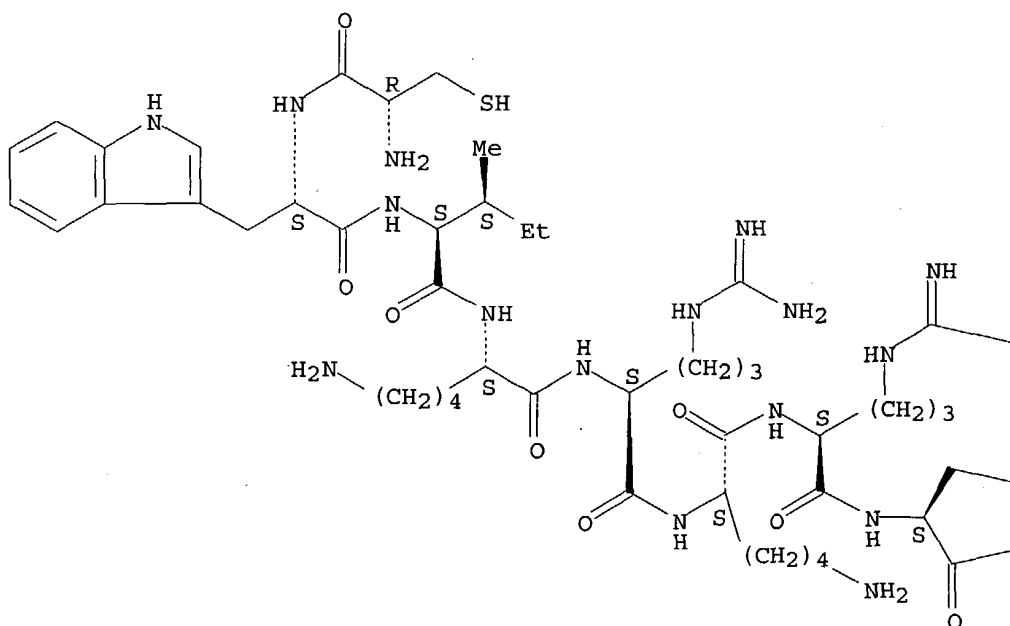
(chemical-defined non-polymeric valency platform mols. and conjugates with polynucleotide or **melittin** as toleragen for autoimmune disease or systemic lupus erythematosus or bee venom)

RN 169744-35-8 HCAPLUS

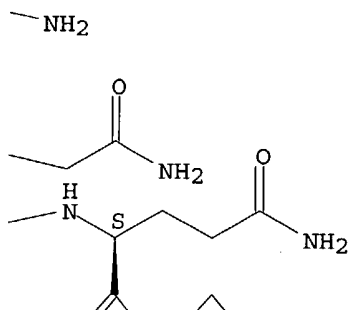
CN Glycine, N-[N2-[N2-[N2-[N2-[N2-[N2-[N-(N-L-cysteinyl-L-tryptophyl)-L-isoleucyl]-L-lysyl]-L-arginyl]-L-lysyl]-L-arginyl]-L-glutaminy]-L-glutaminy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

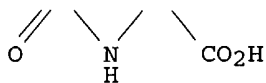
PAGE 1-A



PAGE 1-B



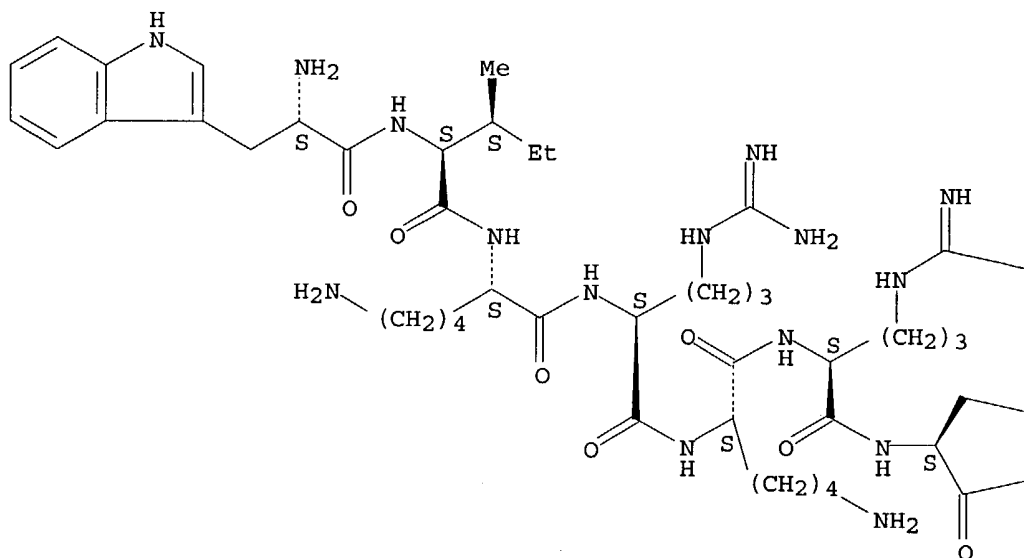
PAGE 2-B



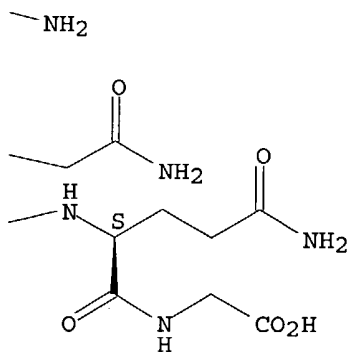
RN 181469-64-7 HCAPLUS
 CN Glycine, N- [N2- [N2- [N2- [N2- [N2- [N2- (N-L-tryptophyl-L-isoleucyl)-L-lysyl]-L-arginyl]-L-lysyl]-L-arginyl]-L-glutaminy]-L-glutaminy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

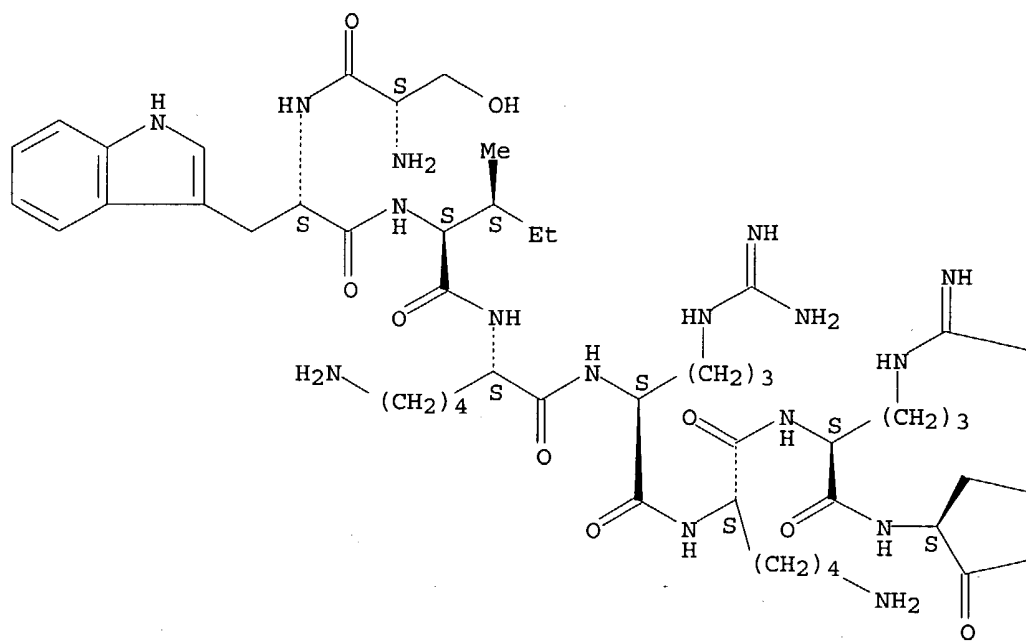


RN 181469-69-2 HCAPLUS

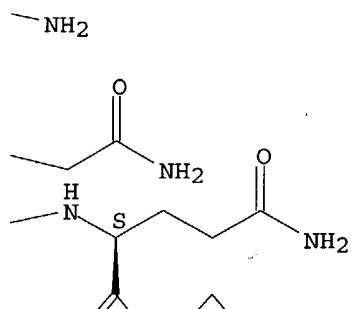
CN Glycine, N-[N2-[N2-[N2-[N2-[N2-[N2-[N-(N-L-seryl-L-tryptophyl)-L-isoleucyl]-L-lysyl]-L-arginyl]-L-lysyl]-L-arginyl]-L-glutamyl]-L-glutamyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

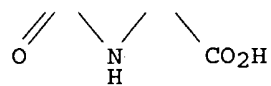
PAGE 1-A



PAGE 1-B



PAGE 2-B

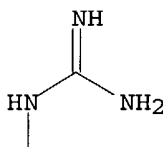
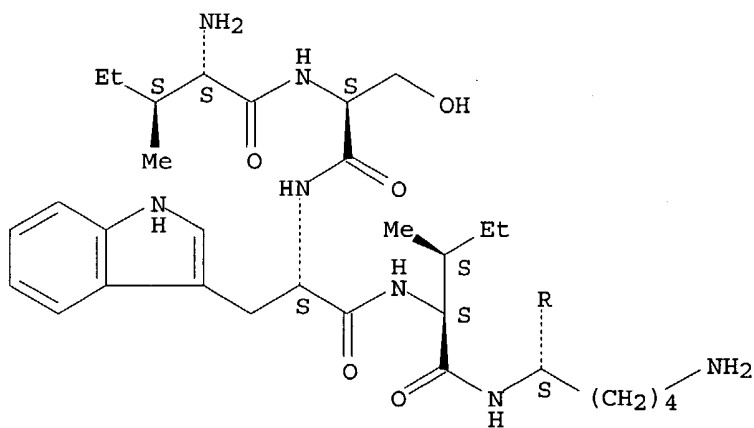


RN 181469-73-8 HCAPLUS

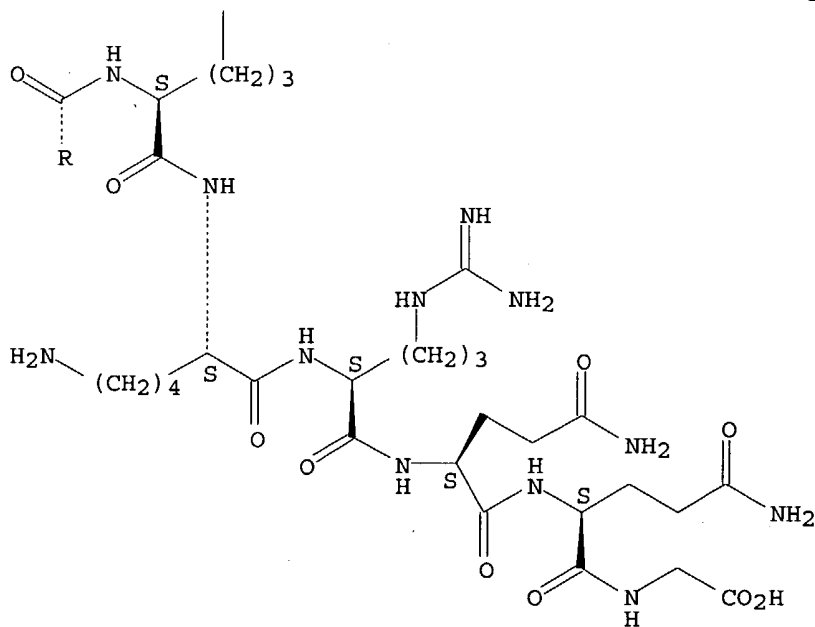
CN Glycine, N-[N2-[N2-[N2-[N2-[N2-[N2-[N-[N-(N-L-isoleucyl-L-seryl)-L-tryptophyl]-L-isoleucyl]-L-lysyl]-L-arginyl]-L-lysyl]-L-arginyl]-L-glutamyl]-L-glutamyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

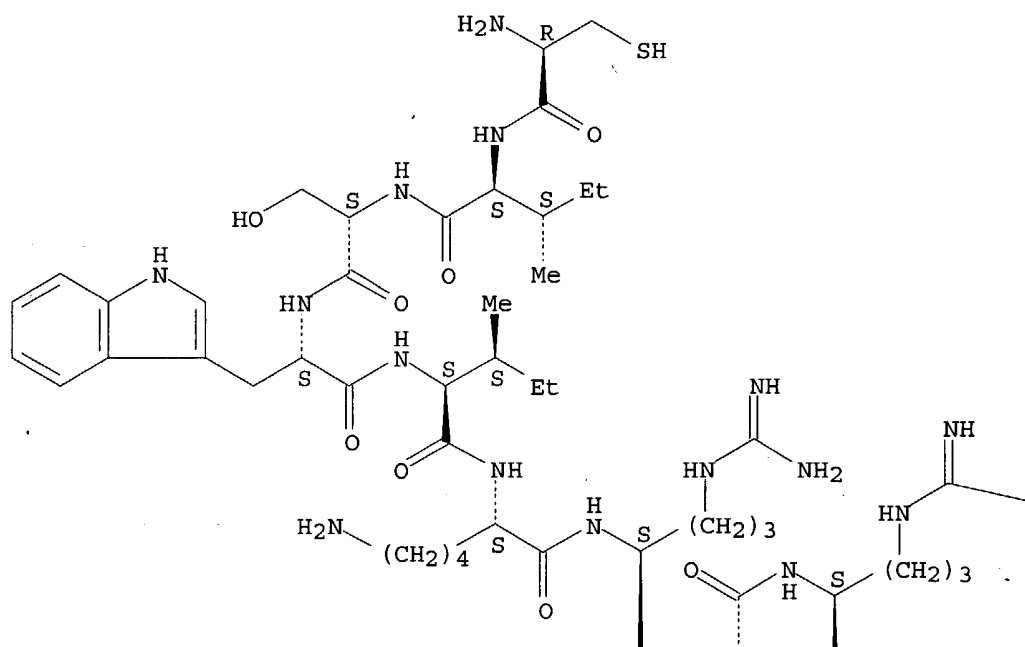


RN 181469-77-2 HCAPLUS

CN Glycine, N-[N2-[N2-[N2-[N2-[N2-[N2-[N-[N-(N-L-cysteinyl-L-isoleucyl)-L-seryl]-L-tryptophyl]-L-isoleucyl]-L-lysyl]-L-arginyl]-L-lysyl]-L-arginyl]-L-glutamyl]-L-glutamyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

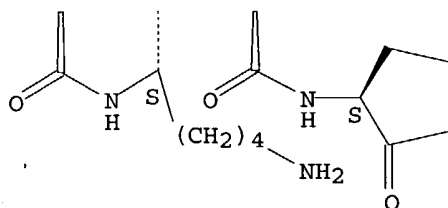
PAGE 1-A



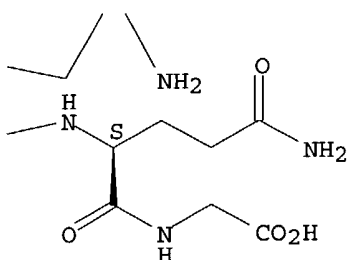
PAGE 1-B

—NH₂

PAGE 2-A



PAGE 2-B



=> s l10 not l14
L16 1 L10 NOT L14

=> d all hitstr

L16 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1995:892826 HCAPLUS
DN 124:290272
ED Entered STN: 03 Nov 1995
TI Preparation of chemically-defined non-polymeric valency platform molecules and conjugates thereof.
IN **Coutts, Stephen; Jones, David S.**; Livingston, Douglas
Alan; Yu, Lin
PA **La Jolla Pharmaceutical Co., Can.**
SO Eur. Pat. Appl., 76 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM A61K047-48
CC 34-3 (Amino Acids, Peptides, and Proteins)
Section cross-reference(s): 1, 15, 33

*related to
instant
pat filing*

FAN.CNT 8

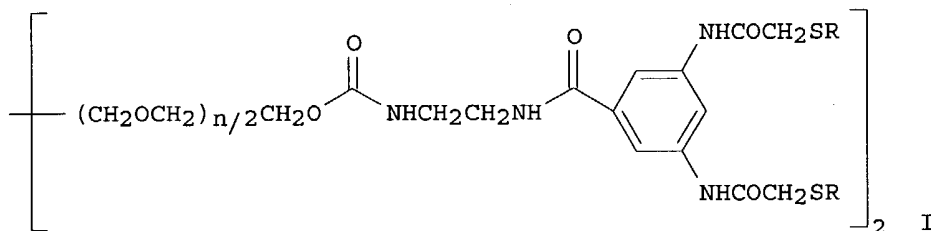
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 642798	A2	19950315	EP 1993-309720	19931203
	EP 642798	A3	19980916		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	US 6060056	A	20000509	US 1993-118055	19930908 <--
	US 5552391	A	19960903	US 1993-152506	19931115
PRAI	US 1993-118055	A	19930908		
	US 1993-142598	A	19931022		
	US 1993-152506	A	19931115		
	EP 1993-309288	A	19931122		

US 1990-466138	B2	19900116
US 1990-494118	A2	19900313
US 1991-652648	A2	19910208
US 1992-914869	A2	19920715

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 642798	ICM	A61K047-48
US 6060056	ECLA	A61K039/385; A61K047/48H4 <--
US 5552391	ECLA	A61K039/385; A61K047/48H4; A61K047/48R2T; C07H021/00C4

GI



- AB Conjugates comprising biol. or chemical mols., including polynucleotide duplexes of at least 20 base pairs that have significant binding activity for human lupus anti-dsDNA autoantibodies, reacted with valency platforms G1(T1)n, G2[L2J2Z2(pT2)]m [G1, G2 = null, (branched) chain containing 1-2000 atoms selected from C, N, O, Si, P, S; T1, T2 = NHR, CONHNHR, NHNHR, CO2H, CO2R1, COX, SO2X, SH, OH, etc.; R = H, alkyl, cycloalkyl, aralkyl; R1 = N-succinimidyl, p-nitrophenyl, pentafluorophenyl, etc.; X = halo, other leaving group; L2 = null, O, NR, S; J2 = null, CO, CS; Z2 = radical containing 1-200 atoms selected from C, H, N, O, Si, P, S, and containing attachment sites for functional groups; n, m = 1-32; p = 1-8; with provisos], were prepared. Thus, title conjugate (I; R = H-Trp-Ile-Lys-Arg-Lys-Arg-Gln-Gln-Lys-Cys-Gly-OH, bound through a cysteine S atom; n = approx. 74) (preparation given) at 1000 µg/mouse in mice primed and boosted with the parent protein melittin gave an 86.8% reduction in peptide specific plaque forming cells.
- ST valency platform mol prepn conjugation; tolerogen conjugate valency platform mol; polyethylene glycol conjugate prepn tolerogen; peptide valency platform conjugate prepn tolerogen; dna valency platform conjugate prepn tolerogen; lupus treatment tolerogen conjugate
- IT Immunosuppressants
(preparation of chemical-defined non-polymeric valency platform mol. conjugates as tolerogens)
- IT Antibodies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(preparation of chemical-defined non-polymeric valency platform mol. conjugates for treating antibody-mediated pathologies)
- IT Lupus erythematosus
(treatment of lupus with tolerogens)
- IT Lymphocyte
(B-cell, conjugates for induction of B cell anergy to immunogens)
- IT Deoxyribonucleic acids
Peptides, preparation
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)
 (conjugates, preparation of chemical-defined non-polymeric valency platform mols. and conjugates thereof)

IT 164910-21-8DP, keyhole limpet hemocyanin conjugate
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (preparation of chemical-defined non-polymeric valency platform mols. and conjugates thereof)

IT 154637-41-9P 169147-31-3P **169744-34-7P 175644-72-1P**
175644-73-2P 175644-74-3P 175644-75-4P 175864-44-5P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of chemical-defined non-polymeric valency platform mols. and conjugates thereof)

IT 175705-40-5 175705-41-6 175705-42-7 175864-43-4
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (preparation of chemical-defined non-polymeric valency platform mols. and conjugates thereof)

IT 64-69-7, Iodoacetic acid 79-08-3, Bromoacetic acid 107-13-1, 2-Propenenitrile, reactions 115-77-5, Pentaerythritol, reactions 124-09-4, 1,6-Hexanediamine, reactions 142-73-4, Iminodiacetic acid 150-13-0, p-Aminobenzoic acid 535-87-5, 3,5-Diaminobenzoic acid 821-41-0, 5-Hexen-1-ol 929-59-9 2009-83-8, 6-Chlorohexanol 17134-17-7, Triethyleneglycol bischloroformate 25322-68-3 54907-61-8, Iodoacetic anhydride 55750-48-6, N-Methoxycarbonylmaleimide 64325-78-6D, controlled pore glass-bound 107949-93-9 164910-27-4 169744-32-5
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of chemical-defined non-polymeric valency platform mols. and conjugates thereof)

IT 1633-78-9P 2465-91-0P 5434-66-2P 19199-82-7P 24991-53-5P
 31252-85-4P 32200-04-7P 35164-96-6P 35638-19-8P 38710-44-0P
 56074-20-5P 66095-18-9P 80901-86-6P 82055-94-5P 85807-84-7P
 113314-17-3P 148254-12-0P 148254-13-1P 148254-14-2P 148254-18-6P
 148254-19-7P 148254-21-1P 154231-80-8P 159736-80-8P 163032-98-2P
 163032-99-3P 163778-62-9P 163778-63-0P 163778-64-1P 164910-22-9P
 164910-24-1P 167362-46-1P 169744-01-8P 169744-02-9P 169744-03-0P
 169744-04-1P 169744-05-2P 169744-06-3P 169744-07-4P 169744-08-5P
 169744-09-6P 169744-10-9P 169744-11-0P 169744-12-1P 169744-13-2P
 169744-14-3P 169744-15-4P 169744-16-5P 169744-17-6P 169744-18-7P
 169744-19-8P 169744-20-1P 169744-21-2P 169744-22-3P 169744-23-4P
 169744-24-5P 169744-25-6P 169744-26-7P 169744-27-8P 169744-28-9P
 169744-29-0P 169744-30-3P 169744-31-4P 169744-33-6P
169744-35-8P 169744-36-9P 169744-37-0P 175707-64-9DP,
 controlled pore glass-bound 175864-40-1P 175864-42-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of chemical-defined non-polymeric valency platform mols. and conjugates thereof)

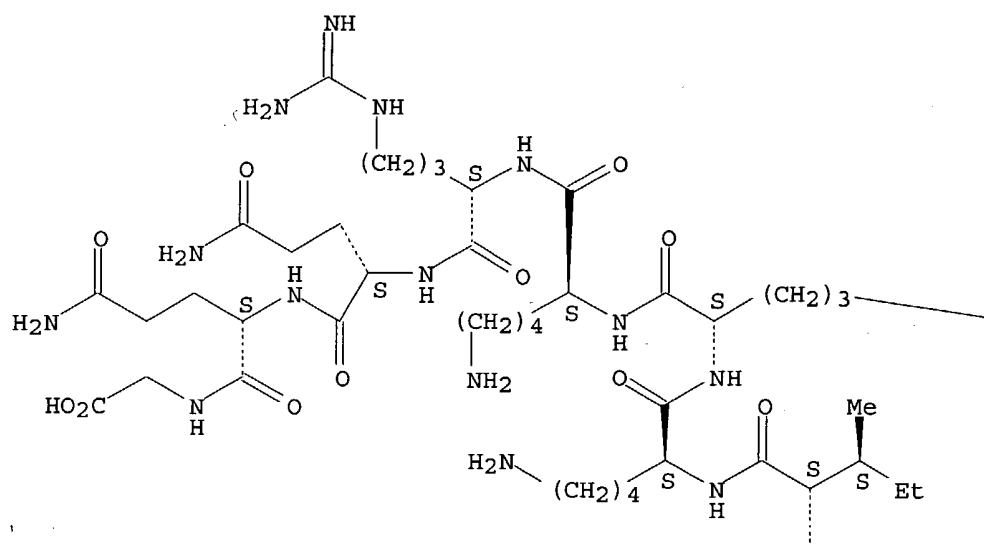
IT **169744-34-7P 175644-72-1P 175644-73-2P**
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of chemical-defined non-polymeric valency platform mols. and conjugates thereof)

RN 169744-34-7 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α,α' -(oxydi-2,1-ethanediyl)bis[ω -hydroxy-, 1,1'-diester with 3-[[2-[[4-[[[2-(carboxyamino)ethyl]amino]carbonyl]phenyl]amino]-2-oxoethyl]dithio]-L-

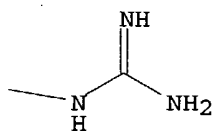
alanyl-L-tryptophyl-L-isoleucyl-L-lysyl-L-arginyl-L-lysyl-L-arginyl-L-glutaminyl-L-glutaminylglycine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

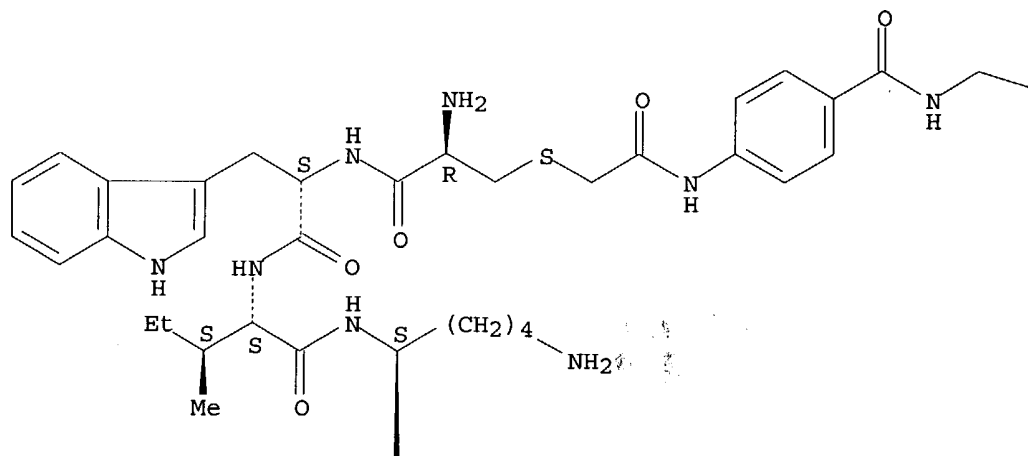
PAGE 1-C



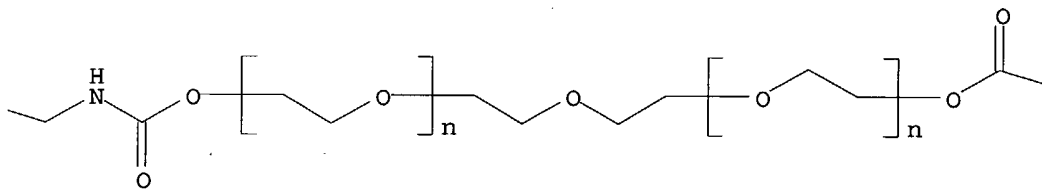
PAGE 1-D



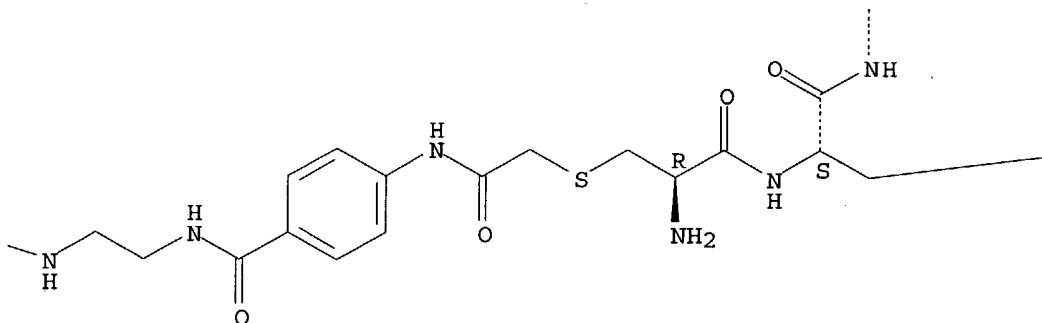
PAGE 2-A



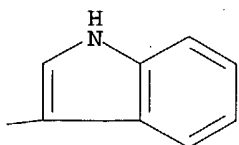
PAGE 2-B



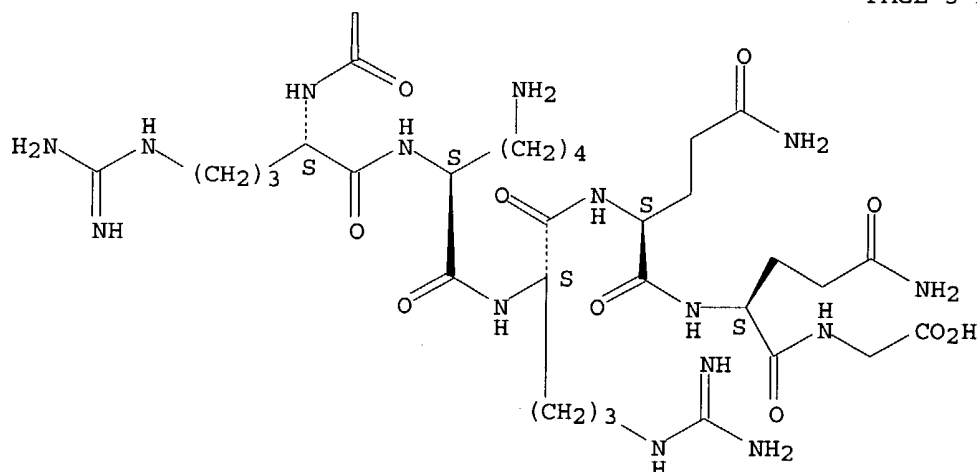
PAGE 2-C



PAGE 2-D



PAGE 3-A



RN 175644-72-1 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-, ester with
 1,1'-[[5-[[[2-(carboxyamino)ethyl]amino]carbonyl]-1,3-
 phenylene]bis[imino(2-oxo-2,1-ethanediyl)]]bis[L-cysteinyl-L-tryptophyl-L-
 isoleucyl-L-lysyl-L-arginyl-L-lysyl-L-arginyl-L-glutaminy-L-
 glutaminyglycine] (1:2) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

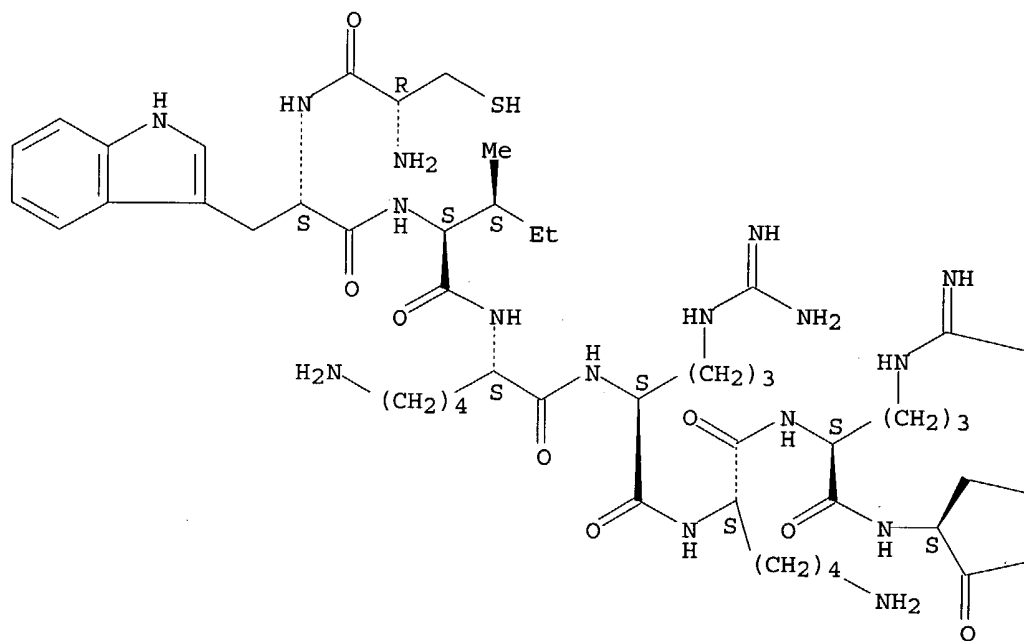
RN 175644-73-2 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy-, ester with
 1,1'-[[5-[[[2-(carboxyamino)ethyl]amino]carbonyl]-1,3-
 phenylene]bis[imino(2-oxo-2,1-ethanediyl)]]bis[L-cysteinyl-L-isoleucyl-L-
 seryl-L-tryptophyl-L-isoleucyl-L-lysyl-L-arginyl-L-lysyl-L-arginyl-L-
 glutaminy-L-glutaminyglycine] (1:2) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

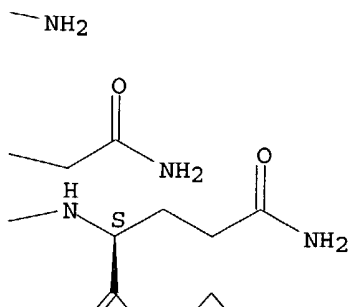
IT 169744-35-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of chemical-defined non-polymeric valency platform mols. and
 conjugates thereof)
 RN 169744-35-8 HCAPLUS
 CN Glycine, N-[N2-[N2-[N2-[N2-[N2-[N2-[N-(N-L-cysteinyl-L-tryptophyl)-L-
 isoleucyl]-L-lysyl]-L-arginyl]-L-lysyl]-L-arginyl]-L-glutaminy]-L-
 glutaminy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

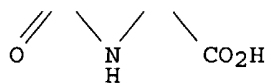
PAGE 1-A



PAGE 1-B



PAGE 2-B



=> d 113 all hitstr tot

L13 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1997:49226 HCAPLUS
 DN 126:155047
 ED Entered STN: 23 Jan 1997
 TI Antibiotic peptides containing D-amino acids
 IN Merrifield, Robert B.; Wade, David; Boman, Hans G.
 PA The Rockefeller University, USA
 SO U.S., 8 pp., Cont. of U.S. Ser. No. 87,143, abandoned.
 CODEN: USXXAM

DT Patent
 LA English
 IC ICM A61K037-02
 ICS C07K014-00

NCL 514012000

CC 10-5 (Microbial, Algal, and Fungal Biochemistry)
 Section cross-reference(s): 34

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5585353	A	19961217	US 1994-307479	19940916 <--
PRAI	US 1990-474524		19900202	<--	
	US 1993-87143		19930706		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 5585353	ICM	A61K037-02
	ICS	C07K014-00
	NCL	514012000

AB Antibiotically and/or antimalarially active enantiomers of naturally occurring antibiotics such as cecropins A, B, and D, melittin, magainins I and II, and their addition, deletion, and replacement analogs, including homologous and heterologous analogs thereof, synthesized from D-amino acids by solid-phase peptide synthesis are claimed.

ST antibiotic peptide enantiomer

IT Antibacterial agents

Antimalarials

(antibiotic peptides containing D-amino acids)

IT Peptides, biological studies

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(antibiotic peptides containing D-amino acids)

IT Amino acids, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(D-; antibiotic peptides containing D-amino acids)

IT 80451-04-3P, Cecropin A (Platysamia cecropia antibacterial peptide)

88845-02-7P 186384-16-7P 186384-17-8P 186384-18-9P 186384-19-0P

186384-20-3P 186384-21-4P 186384-22-5P 186384-23-6P

186384-24-7P 186384-25-8P 186384-26-9P 186384-27-0P

186384-28-1P 186384-29-2P 186384-30-5P 186384-31-6P 186384-32-7P

186384-33-8P 186384-34-9P 186384-35-0P 186384-36-1P

186811-39-2P 186811-40-5P 186811-41-6P 186811-42-7P 186811-44-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(antibiotic peptides containing D-amino acids)

*wrong
isomers*

IT 186384-24-7P 186384-25-8P 186384-33-8P

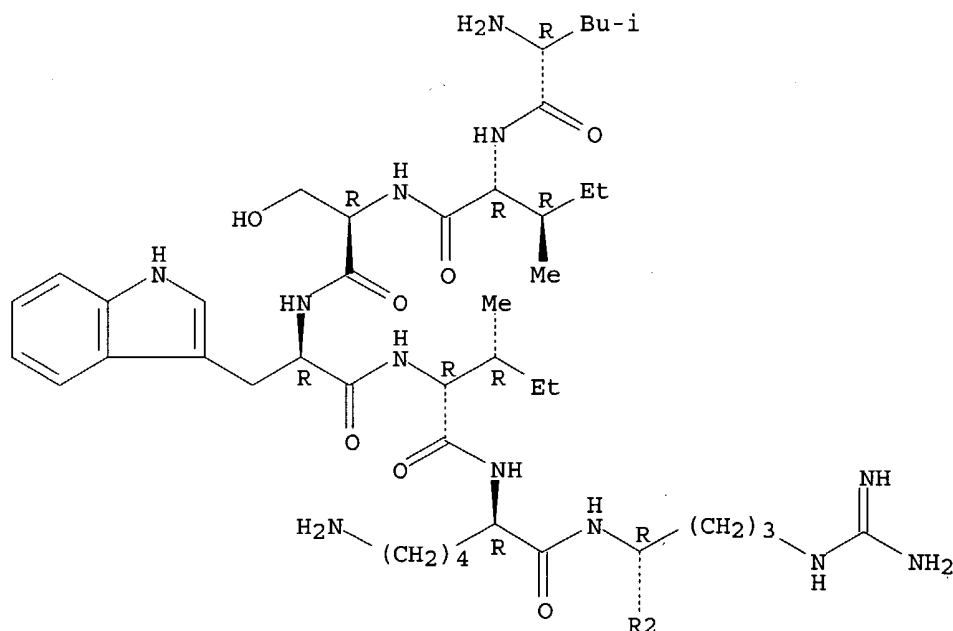
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); IMF (Industrial manufacture); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antibiotic peptides containing D-amino acids)

RN 186384-24-7 HCAPLUS

CN D-Leucine, D-leucyl-D-isoleucyl-D-seryl-D-tryptophyl-D-isoleucyl-D-lysyl-D-arginyl-D-lysyl-D-arginyl-D-glutaminyl-D-glutaminylglycyl-D-isoleucylglycyl-D-alanyl-D-valyl-D-leucyl-D-lysyl-D-valyl-D-leucyl-D-threonyl-D-threonylglycyl- (9CI) (CA INDEX NAME)

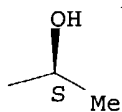
Absolute stereochemistry.

PAGE 1-A

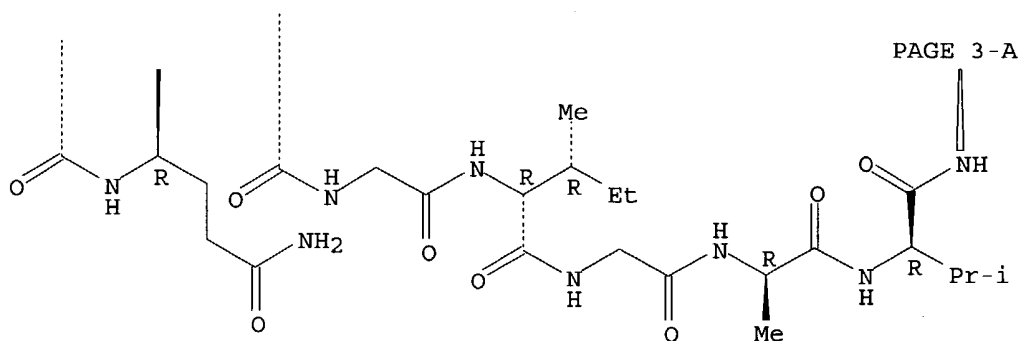


* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

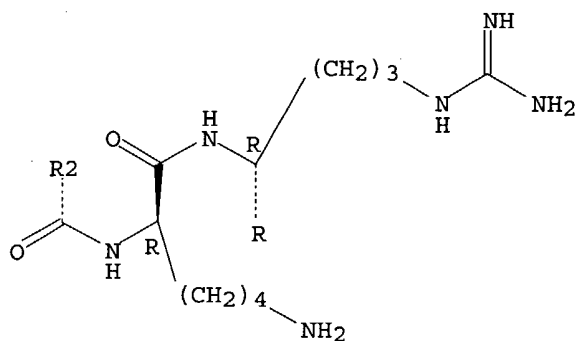
PAGE 2-B



Bu-i



PAGE 4-A



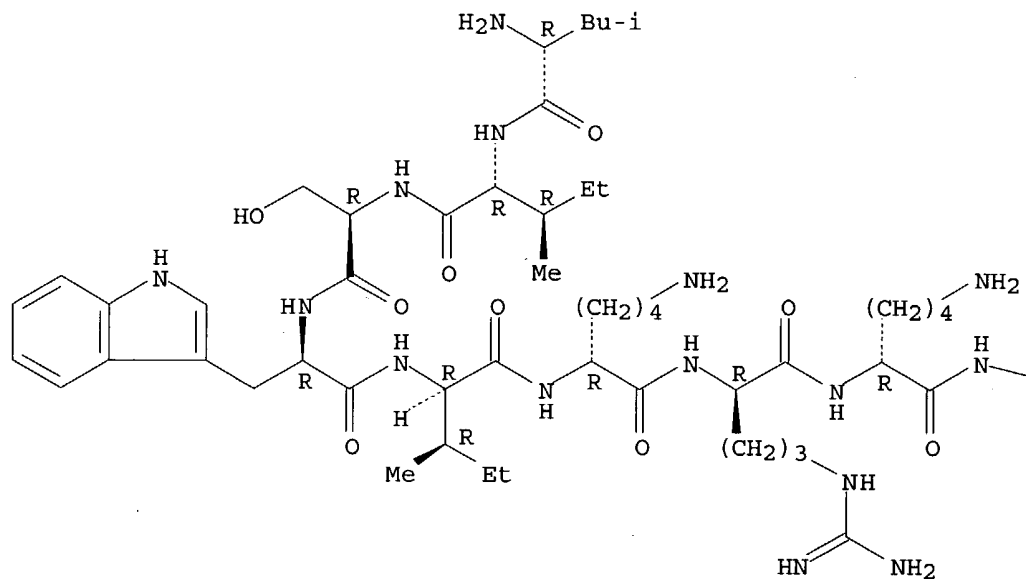
RN 186384-25-8 HCAPLUS

CN D-Lysine, D-leucyl-D-isoleucyl-D-seryl-D-tryptophyl-D-isoleucyl-D-lysyl-D-arginyl-D-lysyl-D-arginyl-D-glutaminyl-D-glutaminylglycyl-D-prolyl-D-alanyl-D-valyl-D-alanyl-D-valyl-D-valylglycyl-D-glutaminyl-D-alanyl-D-

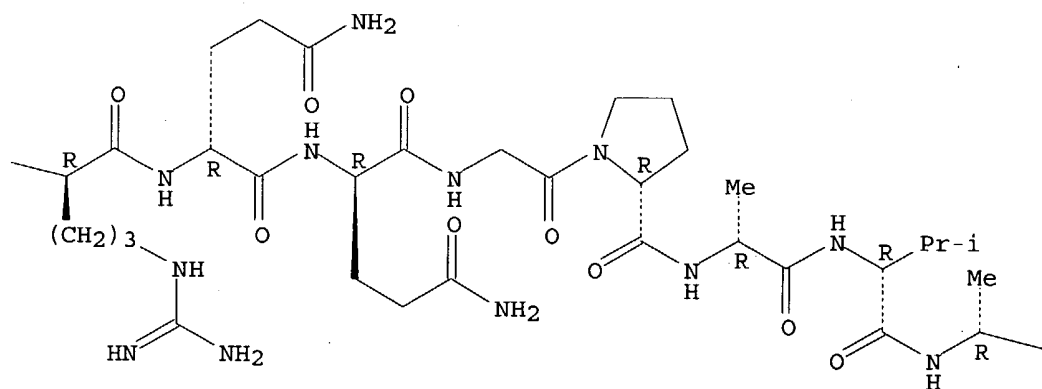
threonyl-D-glutaminyl-D-isoleucyl-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

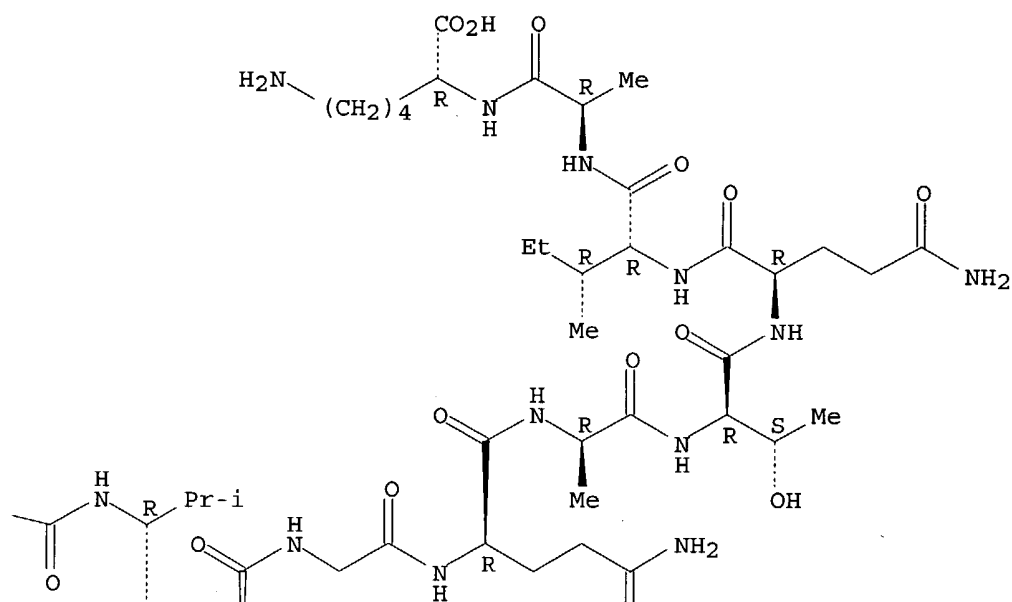
PAGE 1-A



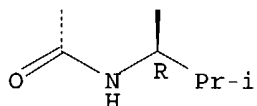
PAGE 1-B



PAGE 1-C



PAGE 2-C

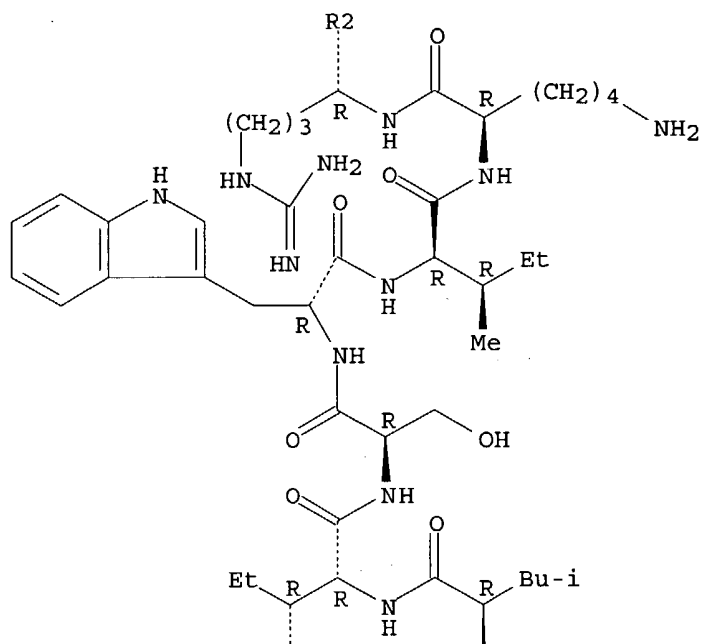


RN 186384-33-8 HCAPLUS

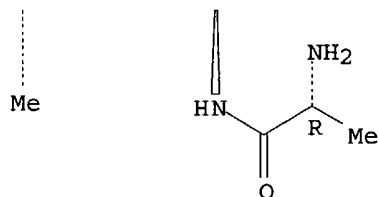
CN D-Serine, D-alanyl-D-leucyl-D-isoleucyl-D-seryl-D-tryptophyl-D-isoleucyl-D-lysyl-D-arginyl-D-lysyl-D-arginyl-D-glutamyl-D-glutaminylglycyl-D-lysyl-D-alanyl-D-phenylalanyl-D-valylglycyl-D-alpha-glutamyl-D-isoleucyl-D-methionyl-D-lysyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

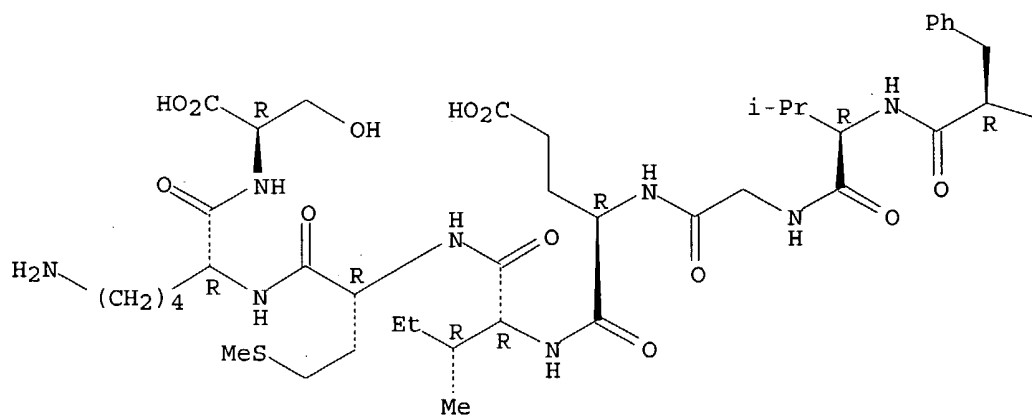
PAGE 1-A



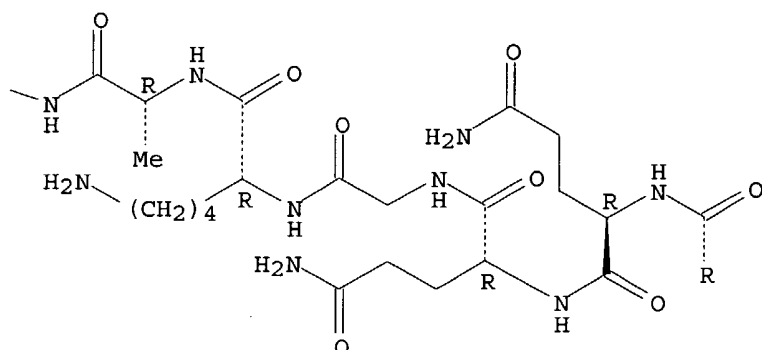
PAGE 2-A



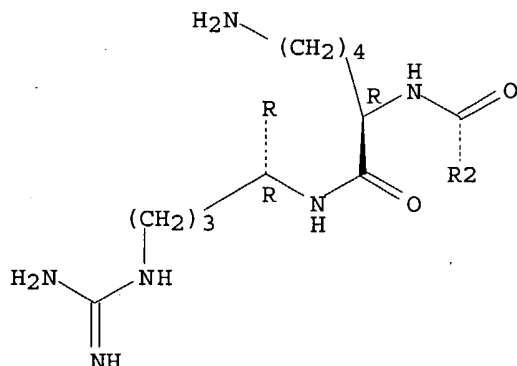
PAGE 3-A



PAGE 3-B



PAGE 4-A



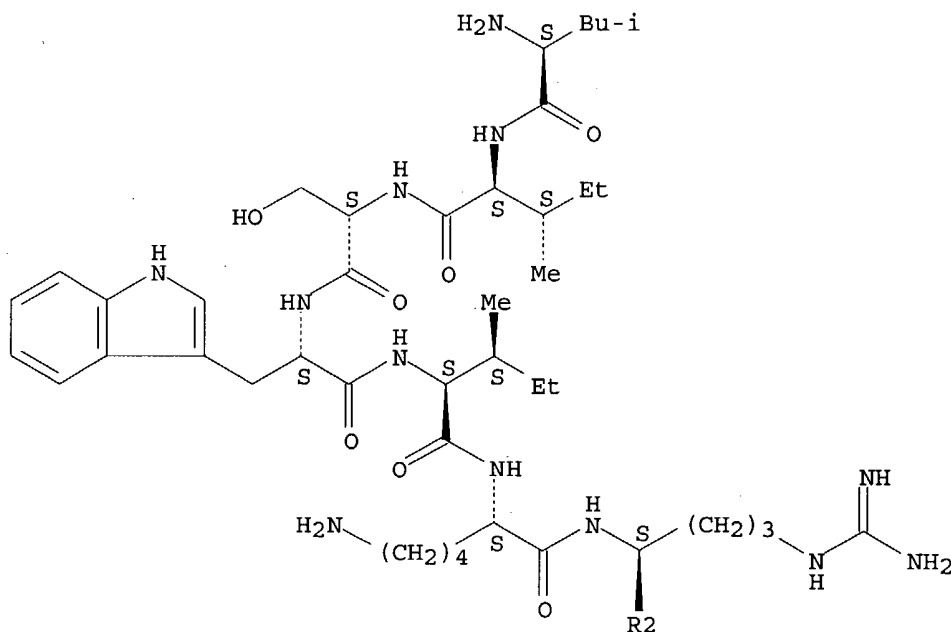
L13 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1990:175449 HCAPLUS
 DN 112:175449
 ED Entered STN: 12 May 1990
 TI Antibacterial and antimalarial properties of peptides that are
 cecropin-melittin hybrids
 AU Boman, H. G.; Wade, D.; Boman, I. A.; Wahlin, B.; Merrifield, R. B.
 CS Dep. Microbiol., Univ. Stockholm, Stockholm, S-10691, Swed.
 SO FEBS Letters (1989), 259(1), 103-6
 CODEN: FEBLAL; ISSN: 0014-5793
 DT Journal
 LA English
 CC 10-5 (Microbial Biochemistry)
 Section cross-reference(s): 34
 AB Solid-phase synthesis was used to produce 5 hybrid peptides containing
 sequences from the antibacterial peptide, cecropin A, and from the bee
 venom toxin, melittin. Four of these chimeric peptides showed good
 antibacterial activity against representative gram-neg. and gram-pos.
 bacterial species. The best hybrid, cecropin A(1-13)-melittin(1-13) was
 100-fold more active than cecropin A against Staphylococcus aureus. It
 was also a 10-fold better antimalarial agent than cecropin B or magainin
 2. Sheep red cells were lysed by melittin at low concns., but not by the
 hybrid mols., even at 50-fold higher concns.
 ST cecropin melittin hybrid peptide antimalarial bactericide
 IT Antibiotics

Antimalarials

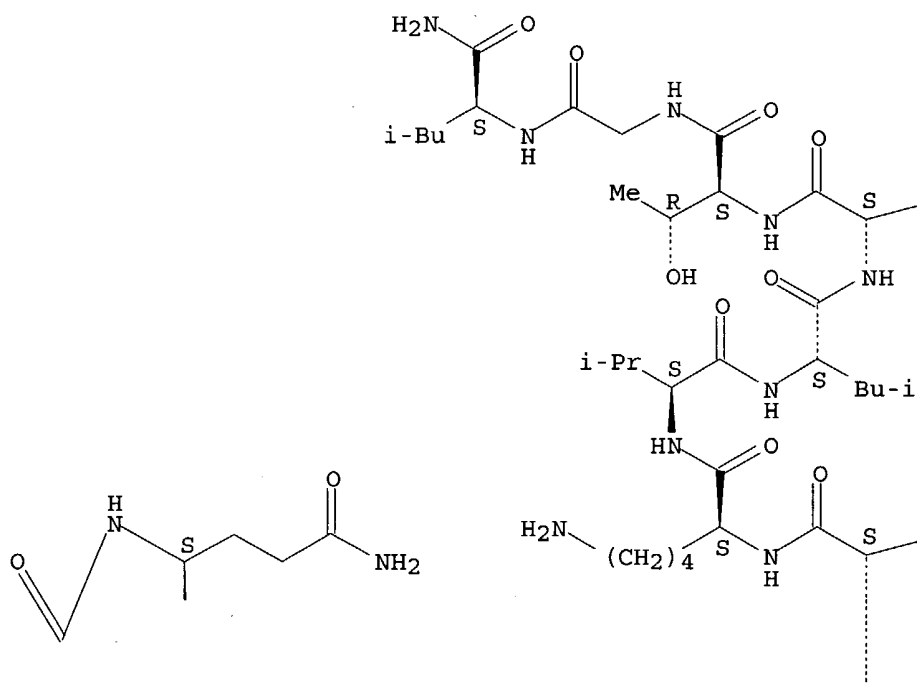
- (cecropin-melittin hybrid peptide as)
- IT 20449-79-0, Melittin 80451-04-3, Cecropin A
 RL: BIOL (Biological study)
 (hybrid peptide prepared from, antibacterial and antimalarial properties of)
- IT 126339-11-5P 126437-52-3P 126437-53-4P 126463-95-4P
126463-96-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and antibacterial and antimalarial properties of)
- IT **126463-96-5P**
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and antibacterial and antimalarial properties of)
- RN 126463-96-5 HCAPLUS
- CN L-Leucinamide, L-leucyl-L-isoleucyl-L-seryl-L-tryptophyl-L-isoleucyl-L-lysyl-L-arginyl-L-lysyl-L-arginyl-L-glutamyl-L-glutamylglycyl-L-isoleucylglycyl-L-alanyl-L-valyl-L-leucyl-L-lysyl-L-valyl-L-leucyl-L-threonyl-L-threonylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

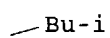
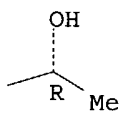
PAGE 1-A

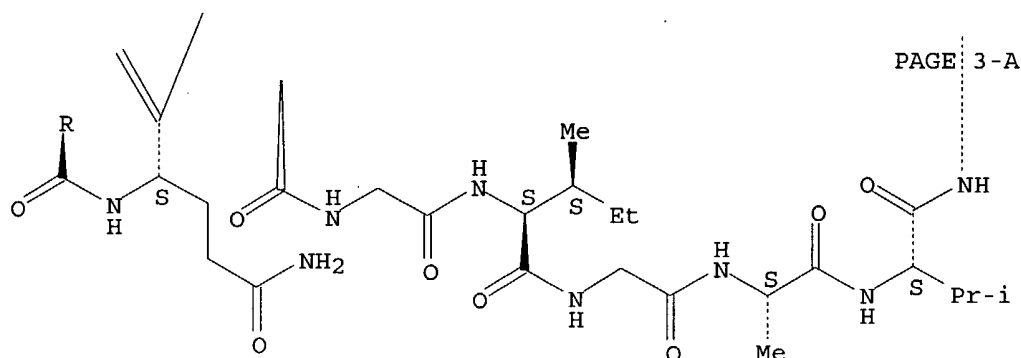


PAGE 2-A

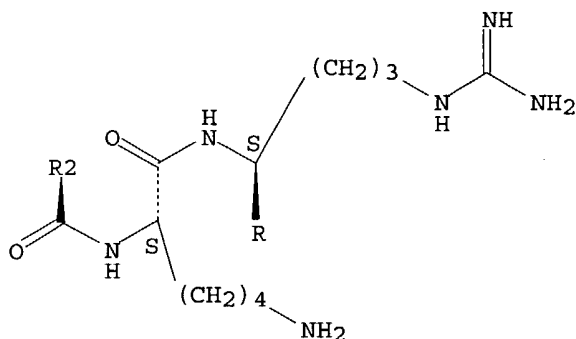


PAGE 2-B





PAGE 4-A



L13 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN
 AN 1987:549380 HCAPLUS
 DN 107:149380
 ED Entered STN: 31 Oct 1987
 TI Import of honeybee prepromelittin into the endoplasmic reticulum:
 structural basis for independence of SRP and docking protein
 AU Mueller, Guenter; Zimmermann, Richard
 CS Inst. Physiol. Chem., Univ. Muenchen, Munich, D-8000/2, Fed. Rep. Ger.
 SO EMBO Journal (1987), 6(7), 2099-107
 CODEN: EMJODG; ISSN: 0261-4189
 DT Journal
 LA English
 CC 6-1 (General Biochemistry)
 AB Honeybee prepromelittin is correctly processed and imported by dog
 pancreas microsomes. Insertion of prepromelittin into microsomal
 membranes, as assayed by signal sequence removal, does not depend on
 signal recognition particle (SRP) and docking protein. The question as to
 how prepromelittin bypasses the SRP/docking protein system was addressed.
 Hybrid proteins between prepromelittin, or C-terminally truncated derivs.,
 and the cytoplasmic protein dihydrofolate reductase from mouse were
 constructed. These hybrid proteins were analyzed for membrane insertion
 and sequestration into microsomes. The results suggest the following: (1)
 the signal sequence of prepromelittin is capable of interacting with the
 SRP/docking protein system, but this interaction is not mandatory for
 membrane insertion; this is related to the small size of prepromelittin.
 (2) In prepromelittin a cluster of neg. charged amino acids must be
 balanced by a cluster of pos. charged amino acids to allow membrane
 insertion. (3) In general, a signal sequence can be sufficient to mediate

membrane insertion independently of SRP and docking protein in the case of short precursor proteins; however, the presence and distribution of charged amino acids within the mature part of these precursors can play distinct roles.

- ST prepromellitin transport endoplasmic reticulum; signal recognition particle prepromellitin endoplasmic reticulum; docking protein prepromellitin endoplasmic reticulum
- IT Protein sequences
(of prepromellitin-dihydrofolate reductase chimeric proteins)
- IT Endoplasmic reticulum
(prepromellitin import by, signal recognition particle and docking protein independence of, structural basis for)
- IT Microsome
(prepromellitin insertion into membrane of, signal recognition particle and docking protein independence of, structural basis for)
- IT Biological transport
(absorption, of prepromellitin by endoplasmic reticulum, signal recognition particle and docking protein independence of, structural basis for)
- IT Proteins, specific or class
RL: BIOL (Biological study)
(docking, prepromellitin import by endoplasmic reticulum independence of, structural basis for)
- IT Proteins, specific or class
RL: PROC (Process)
(fusion products, construction of)
- IT Peptides, biological studies
RL: BIOL (Biological study)
(signal, in protein import by endoplasmic reticulum, signal recognition particle and docking proteins dependence in relation to)
- IT Ribonucleoproteins
RL: BIOL (Biological study)
(signal recognition, prepromellitin import by endoplasmic reticulum independence of, structural basis for)
- IT 87608-85-3
RL: BIOL (Biological study)
(absorption of, by endoplasmic reticulum, signal recognition particle and docking protein independence of, structural basis for)
- IT 9002-03-3D, Dihydrofolate reductase, -prepromellitin chimeric proteins
87608-85-3D, -dihydrofolate reductase chimeric proteins
RL: PRP (Properties)
(construction and amino acid sequences of)
- IT 87608-85-3
RL: BIOL (Biological study)
(absorption of, by endoplasmic reticulum, signal recognition particle and docking protein independence of, structural basis for)
- RN 87608-85-3 HCAPLUS
- CN Melittin, prepro- (honeybee) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

- IT 87608-85-3D, -dihydrofolate reductase chimeric proteins
RL: PRP (Properties)
(construction and amino acid sequences of)
- RN 87608-85-3 HCAPLUS
- CN Melittin, prepro- (honeybee) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

- L13 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2004 ACS on STN
- AN 1983:570598 HCAPLUS
- DN 99:170598
- ED Entered STN: 12 May 1984
- TI Nucleotide sequence of cloned cDNA coding for honeybee prepromelittin

AU Vlasak, Reinhard; Unger-Ullmann, Claudia; Kreil, Guenther; Frischauf, Anna
Maria
CS Inst. Molekularbiol., Oesterr. Akad. Wiss., Salzburg, A-5020, Austria
SO European Journal of Biochemistry (1983), 135(1), 123-6
CODEN: EJBCAI; ISSN: 0014-2956
DT Journal
LA English
CC 3-4 (Biochemical Genetics)
Section cross-reference(s): 12
AB Total mRNA from venom glands of young queen bees was transcribed into cDNA
and cloned into the PstI site of plasmid pBR322. The nucleotide sequence
of 2 clones with inserts containing genetic information for prepromelittin
[66369-20-8] is presented. The longer insert encompasses 374 base pairs,
including 52 nucleotides before the initiation codon, and a 3' noncoding
region of 112 base pairs. The 70 amino acids of prepromelittin represent
the total coding capacity of the mRNA from which this insert is derived.
Southern blot anal. with this cloned cDNA showed that it hybridizes with a
single EcoRI fragment of honeybee DNA which contains .apprx.3000 base
pairs.
ST prepromelittin cDNA cloning sequence honeybee; melittin cDNA sequence
honeybee; gene melittin honeybee
IT Gene and Genetic element, animal
RL: PROC (Process)
(for melittin, of honeybee, localization of)
IT Honeybee
(melittin-sp. mRNA of, cloning and sequence of DNA complementary to)
IT Protein sequences
(of melittin, of Apis mellifera, complete)
IT Molecular cloning
(of melittin-sp. DNA complementary to honeybee mRNA)
IT Protein sequences
(of prepromelittin, of Apis mellifera, complete)
IT Protein sequences
(of promelittin, of Apis mellifera, complete)
IT Ribonucleic acids, messenger
RL: BIOL (Biological study)
(melittin-specifying, of honeybee, cloning and sequence of DNA
complementary to)
IT Deoxyribonucleic acid sequences
(melittin-specifying, of Apis mellifera, complete)
IT 20449-79-0 87608-81-9 **87608-85-3**
RL: PRP (Properties)
(amino acid sequence of)
IT 87659-04-9
RL: PRP (Properties); BIOL (Biological study)
(nucleotide sequence of)
IT 66369-20-8
RL: PRP (Properties)
(of honeybee, cloning of cDNA for)
IT 37231-28-0 37231-70-2
RL: PRP (Properties)
(of honeybee, sequence of)
IT **87608-85-3**
RL: PRP (Properties)
(amino acid sequence of)
RN 87608-85-3 HCAPLUS
CN Melittin, prepro- (honeybee) (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

=> => fil reg

FILE 'REGISTRY' ENTERED AT 09:33:32 ON 26 AUG 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 24 AUG 2004 HIGHEST RN 732209-96-0
DICTIONARY FILE UPDATES: 24 AUG 2004 HIGHEST RN 732209-96-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> s 87608-85-3
L17 1 87608-85-3
(87608-85-3/RN)

=> s l17 and l1
L18 1 L17 AND L1

=> d sqide can

L18 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 87608-85-3 REGISTRY
CN Melittin, prepro- (honeybee) (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
SQL 70

SEQ 1 MKFLVNVALV FMVVYISYIY AAPEPEPAPE PEAADAEAD PEAGIGAVLK
51 VLTGGLPALI SWIKRKRQOG
=====

HITS AT: 62-70

RELATED SEQUENCES AVAILABLE WITH SEQLINK

MF C350 H552 N84 O99 S2
CI MAN

LC STN Files: CA, CAPLUS, TOXCENTER

DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties)

RLD.NP Roles for non-specific derivatives from non-patents: PRP (Properties)

2 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 107:149380

REFERENCE 2: 99:170598

=>